# Data Sheet
## Fujitsu FUTRO S900 Thin Client

### The Expandable Multi-talent

The individually configurable Fujitsu FUTRO S900 thin client has all the flexibility you need to optimize secure server-based computing and desktop virtualization. This simple, reliable yet powerful front-end device is easy to integrate and manage. It also offers expansion slots and unique connectivity options to maximize user convenience. Plus, its long lifecycle helps you minimize TCO.

**Green technology**
Your company's contribution to environmental protection
- A modern, environmentally conscious product concept - from development to recycling

**Relaxed working**
Quiet system for a pleasant working environment
- Flash memory and passive cooling concept

**Energy efficiency**
Saves energy and reduces CO2 emissions
- Integrated system concept with power-saving components

**Manageability**
Easy administration while reducing total cost of ownership
- Outstanding manageability solution

**Backpack solution**
Less space needed
- The FUTRO S900 can be mounted behind the screen

# Technical details Components

| | |
|---|---|
| **Memory modules** | 1 GB (1 module(s) 1 GB) DDR3, 1066 MHz, PC3-8500, SO DIMM |
| | 2 GB (1 module(s) 2 GB) DDR3, 1066 MHz, PC3-8500, SO DIMM |
| **Graphics** | NVIDIA® Quadro® NVS 300 LP, 512 MB |
| | LFH59/ 2x DVI-I adapter cable |
| | LFH59/ 2x DP adapter cable |
| | DP to DVI-D (single link) Adapter Cable |
| | AMD FirePro™ V3900, 1 GB |
| **Hard disk drives (internal)** | mSATA, 1 GB Flash drive |
| | mSATA, 2 GB Flash drive |
| | mSATA, 4 GB Flash drive |
| | mSATA, 8 GB Flash drive |
| | mSATA, 16 GB Flash drive |
| **Interface add on cards/components (optional)** | |
| | WLAN module |
| | Parallel Card (1 Port) |
| | Internal speaker |
| | Dual serial card PCIe x1 |
| | 2nd LAN/Power-over-Ethernet module |
| **Base unit** | FUTRO S900 |
| **Operating system and software (Linux)** | |
| **Operating system** | eLux® RL - Embedded Linux |
| | eLux® RP – Embedded Linux |
| **Functions** | eLux® RP: eLux® RP V4.0.0 or newer |
| | eLux® RP: Adobe Flash Player 11 for Linux, V11.2.202.275-1 or newer |
| | eLux® RP: Mozilla Firefox Browser, V10.0.9-4 or newer |
| | eLux® RP: PowerTerm InterConnect, V7.1.2-3 or newer, additional license required |
| | eLux® RP: FreeRDP, V1.0.2.1-1 or newer |
| | eLux® RP: RDPConnect, V3.1-1 or newer |
| | eLux® RP: ICA client, V12.1.0-11 or newer |
| | eLux® RP: VMware® View Client-5.2.1.1-1 or newer (optional) (including support for PCoIP) |
| | eLux® RP: Updates and optional software packages are available at www.myelux.com |
| | eLux® RL: eLux® RL V3.8.0 or newer |
| | eLux® RL: Adobe Flash Player 11 for Linux, V11.2.202.236-2 or newer |
| | eLux® RL: Eterm 97801 terminal emulation, V3.1-1 or newer |
| | eLux® RL: Mozilla Firefox Browser, V3.6.19.1-1 or newer |
| | eLux® RL: RDP client, V1.7.1.2-4 or newer |
| | eLux® RL: ICA client, V12.1.0-9 or newer |
| | eLux® RL: VMware® View Client, V5.0.1.1-2 or newer (optional) (including support for PCoIP) |
| | eLux® RL: RDPConnect, V3.0-1 or newer |
| | eLux® RL: Updates and optional software packages are available at www.myelux.com |
| **Manageability** | Scout Enterprise, flash memory management, embedded operating system update and system monitoring, managing devices by location, group or user, individual operating system composition with ELIAS (only with eLux® RL) |
| **VPN (Linux)** | VPN client from Cisco (optional) |
| **Operating system and software (Windows)** | |
| **Operating system** | Windows® Embedded Standard 7 (WS7E) |
| | Windows® Embedded Standard 7 (WS7E multimedia) |
| | Windows® Embedded Standard 7 (WS7P) |

## Operating system and software (Windows)

| | |
|---|---|
| **Functions** | WS7E: Citrix® Receiver V 2.1.45663.0_12202010 or newer<br>WS7E: Citrix® Online Plugin Full V 12.1.0.30_10282010 or newer<br>WS7E: VMware® View Client V 4.6.0-366101 or newer (including support for PCoIP)<br>WS7E: RDP-Client Protocol V 7.1 with RemoteFX or newer<br>WS7E: Internet Explorer 8<br>WS7E: Acrobat Reader V 9.3 or newer<br>WS7E: .NET Framework 2.0 or newer<br>WS7E: Scout Agent for Windows® Embedded Standard 7 (optional)<br>WS7E multimedia: Citrix® Receiver Enterprise V 3.3 or newer<br>WS7E multimedia: VMware® View Client V 5.2.0-848202 or newer (including support for PCoIP)<br>WS7E multimedia: RDP-Client Protocol V 7.1 with RemoteFX or newer<br>WS7E multimedia: Internet Explorer 9<br>WS7E multimedia: Acrobat Reader X or newer<br>WS7E multimedia: .NET Framework 4.0 or newer<br>WS7E multimedia: Scout Agent for Windows® Embedded Standard 7<br>WS7E multimedia: WEDM Microsoft Windows Embedded Device Manager<br>WS7P: Language: EN, DE (FR, IT in addition for pre-installation 1)<br>WS7P: Citrix Receiver Enterprise 3.4<br>WS7P: VMware View Client 5.2.1<br>WS7P: RDP-Client Protocol V 7.1 with RemoteFX<br>WS7P: Scout Agent for WES 7 (Build 57)<br>WS7P: WEDM Microsoft Windows Embedded Device Manager<br>WS7P: Sumatra PDF Reader 2.1.1<br>WS7P: DotNET Framework 2.0, 3.0, 3.5 (4.0 in addition for pre-installation 1)<br>WS7P: Internet Explorer 9<br>WS7P: Media Player 12<br>WS7P: Premium Multimedia Codecs<br>WS7P: Adobe Flashplayer 11.5<br>WS7P: Security (SmartCard Reader support)<br>WS7P: FBWF File Base Write Filter, EWF Enhanced Write Filter |
| **Manageability** | Scout Enterprise |
| **VPN (Windows)** | VPN through CUZ available |

## Mainboard

| | |
|---|---|
| **Mainboard type** | D3003-A |
| **Formfactor** | miniITX |
| **Processor** | AMD G-Series G-T44R (1.2 GHz, 512 KB) |
| **Processor options** | AMD G-Series G-T56N (2 Cores / 2 Threads, 1.65 GHz, 2 x 512 KB) |
| **Processor options** | AMD G-Series G-T40N (2 Cores / 2 Threads, 1.00 GHz, 2 x 512 KB) |
| **Chipset** | AMD A55E Controller Hub |
| **Processor quantity maximum** | 1 |
| **Memory slots** | 2 SO DIMM (DDR3, 1066 MHz) |
| **Supported capacity RAM (max.)** | 4 GB |
| **LAN** | Built-in 10/100/1000 MBit/s |
| **BIOS features** | BIOS Flash EPROM update by software<br>Recovery BIOS<br>Unified Extensible Firmware Interface (UEFI) |
| **Audio type** | On board |
| **Audio codec** | Realtek ALC262 |
| **Audio features** | AC'97 codec |

## Slots

| | |
|---|---|
| **PCI-Express x1** | 1 x (155 mm / ) low profile (optional) |
| **PCI (32-bit / 33 MHz)** | 1 x (155 mm / ) low profile (optional) |

## Interfaces

| | |
|---|---|
| | FUTRO S900 |
| **Audio: line-in** | 1 |
| **Audio: line-out** | 1 |
| **Front audio: headphone** | 1 |

| Interfaces | |
|---|---|
| Front audio: line-in / microphone | 1 |
| USB 2.0 total | 8 |
| USB front | 2 |
| USB rear | 4 |
| USB internal | 2 |
| DisplayPort | 1 DP |
| DVI | 1 DVI-I (integrated VGA can be used with DVI-VGA adapter) |
| Serial (RS-232) | 2 external |
| Mouse / Keyboard (PS/2) | 2 |
| Ethernet (RJ-45) | 1 |
| Kensington Lock support | 1 |

| Graphics | |
|---|---|
| Graphics brand name | AMD Radeon™ HD 6320 (in combination with AMD G-Series G-T56N), AMD Radeon™ HD 6250 (in combination with AMD G-Series G-T44R), AMD Radeon™ HD 6290 (in combination with AMD G-Series G-T40N) |
| Graphics color depth | 32 bit colors |
| Shared video memory | up to 256 MB |
| TFT resolution (VGA) | up to 1920 x 1200 pixel |
| TFT resolution (DVI) | up to 1920 x 1200 pixel |
| TFT resolution (DisplayPort) | up to 2560 x 1600 pixel |
| Graphics features | DirectX 11<br>Shader Model 5<br>Open CL® 1.1 (depending on CPU)<br>OpenGL 4.1 |
| Graphics notes | Graphics resolution depending on operating system and management solution. |

| Network | |
|---|---|
| Network | TCP/IP with DNS and DHCP<br>Point-to-Point protocol<br>Supported Citrix Load Balancing over ICA<br>DHCP support for automatic firmware upgrades and unit configuration<br>Multiple master browser support on ICA |

| Electrical values | |
|---|---|
| Rated voltage range | 100 V - 240 V (AC Input) |
| Rated frequency range | 50 Hz - 60 Hz |
| Operating voltage range | 100 V - 240 V (AC Input) |
| Operating line frequency range | 50 Hz - 60 Hz |

| Power consumption for standard configuration with Windows Embedded Standard | |
|---|---|
| Power consumption: Maximum (S0, running appl.) | 24 W |
| Power consumption: Idle (S0, running OS, Idle mode) | 9.7 W (typical configuration) |
| Power consumption: Minimum (ACPI status S5, soft off, WOL enabled) | 0.58 W |

| Dimensions / Weight / Environmental | |
|---|---|
| Dimension with stand (W x D x H) | 97 x 191 x 266 mm |
| Operating position | Vertical / horizontal |
| Weight | 1,3 kg |
| Weight notes | Actual weight may vary depending on configuration |
| Operating ambient temperature | 10 - 35 °C |
| Operating relative humidity | 5 - 85 % (relative humidity) |

| Compliance | |
|---|---|
| **Product** | FUTRO S900 |
| **Model** | TCS-D3003A |
| **Germany** | GS |
| **Europe** | CE certification according to EC Directive 2004/108/EEC<br>CB |
| **USA/Canada** | CSA<br>FCC Class B (depending on wireless configuration)<br>CAN/CSA<br>ICES-003 Class B |
| **Global** | ENERGY STAR® 5.0<br>RoHS (Restriction of hazardous substances)<br>WEEE (Waste electrical and electronic equipment)<br>EPEAT® Silver (dedicated regions) |
| **Japan** | VCCI |
| **India** | WPC |
| **Russia** | GOST |
| **Compliance notes** | Energy Star compliance may vary depending on actual configuration |
| **Compliance link** | http://globalsp.ts.fujitsu.com/sites/certificates |

| Security | |
|---|---|
| **System and BIOS Security** | Write protection for the Flash module |
| **User Security** | Access protection via internal SmartCard reader (optional) |

| Warranty | |
|---|---|
| **Standard Warranty** | 2 years (depending on country) |
| **Service level** | Bring-in Service (for countries within region FTS CEMEA&I, for all other countries depending on local regulations, minimum: 2 years material warranty) |
| **Warranty Terms & Conditions** | http://support.ts.fujitsu.com/warranty |
| **Maintenance and Support Services - the perfect extension** | |
| **Recommended Service** | 9x5, Response Time: Next Business Day |
| **Spare Parts availability** | 5 years after end of product life |
| **Service Weblink** | http://www.fujitsu.com/fts/services/support |

# Recommended Accessories

| | | | |
|---|---|---|---|
| **Midspan Micro Semi PD-9501G** | | Midspan Micro Semi PD-9501G is a single port Power over Ethernet solution, specially designed to power IEEE 802.11n and other high power Ethernet end Terminals with 60W.<br>It is fully backward compatible and easy to implement in your existing Ethernet infrastructure. | Order Code:<br>S26361-F1744-L10 |
| **Midspan Micro Semi PD-9512G** | | Midspan Micro Semi PD-9512G is a Power over Ethernet solution with 12 ports, -72W per port, specially designed to power network devices like cameras, access control systems, Thin Clients and other Ethernet end terminals. It is fully backward compatible and supports IPv4 and IPv6. | Order Code:<br>S26361-F1744-L20 |
| **Longshine Switch** | | The 16-Port 10/100/1000 Mbps Gigabit Longshine switch provides you a real Gigabit connection. Users are able to transfer large files with high bandwidth requirements faster while administrators experience a real efficiency improvement. The fanless Longshine switch is energy efficient, easy to install and fully compliant with all kinds of network protocols. | Order Code:<br>S26391-F6055-L416 |

| | | |
|---|---|---|
| **Mounting Kit Solution FUTRO S** | The Fujitsu Mounting Kit Solution for FUTRO S gives you two options for mounting your thin client behind a display and hiding the system cables out of the way. The solid metal mounting bracket lets you mount directly to a VESA compatible display or via the included subadapter plate with Velcro™ strap for non-VESA displays. | Order Code: S26361-F2601-L530 |
| **Display B22W-6 LED** | The B22W-6 LED offers best ergonomics and usability for intensive office use with a 4-in-1 stand. | Order Code: BDL:TOP-B22W-6-LED |
| | | Order Code: BDL:TOP-B24W-6-LED |
| **Display B22W-6 LED** | The B22W-6 LED offers best ergonomics and usability for intensive office use with a 4-in-1 stand. | Order Code: S26361-K1375-V140 |
| **Display B24W-6 LED** | The Fujitsu Display B24W-6 LED combines the best ergonomic and energy saving solutions for intensive office use. The flexible stand with height adjust assures an individual and healthy posture for long-time working sessions. With its impressive screen size it allows working on different documents in parallel or standard CAD applications. | Order Code: S26361-K1427-V140 |
| **Wireless Mouse Touch WI910** | The Fujitsu Wireless Mouse Touch WI910 has a special touch sensitive surface that recognizes when your hand touches the mouse even before you move it. This provides nearly instantaneous wake-up from the intelligent energy saving sleep mode. Unbeatable responsiveness combines with features like switchable resolution, and three programmable buttons for a unique user experience. | Order Code: S26381-K465-L100 |
| **Mouse MC200** | The Fujitsu Mouse MC200 provides SMB and enterprise the right combination of quality features and cost savings. It is appropriate for either right or left handed users and features two mouse buttons plus a scroll wheel that acts as a third button. It connects with a familiar plug and play USB interface for trouble free installation. | Order Code: S26381-K463-L100 |
| **Keyboard KB900** | The KB900 is a very flat keyboard with extra low keys and spill-resistant protection. The elegant design and top-quality construction makes the KB900 the ideal input device for any PC or Notebook user. If you accidently spill some water or coffee onto the keyboard, this special construction helps the liquid to flow away. | S26381-K560-L4** (**: Country specific variation) |
| **Wireless Keyboard Set LX900** | The Wireless Keyboard LX900 is a top of the line desktop solution for lifestyle orientated customers, who want only the best for their desk. This superb keyboard set with offers ambitious users more functions, security and better features than a conventional interface device. It even includes 2.4 GHz technology and 128 AES encryption for security. | S26381-K564-L4** (**: Country specific variation) |

# More information

## Fujitsu OPTIMIZATION Services

In addition to Fujitsu FUTRO S900, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

**Fujitsu Portfolio**
Build on industry standards, Fujitsu offers a full portfolio of IT hardware and software products, services, solutions and cloud offering, ranging from clients to datacenter solutions and includes the broad stack of Business Solutions, as well as the full stack of Cloud offering. This allows customers to leverage from alternative sourcing and delivery models to increase their business agility and to improve their IT operation's reliability.

**Computing Products**
www.fujitsu.com/global/services/computing/

**Software**
www.fujitsu.com/software/

## More information

Learn more about Fujitsu FUTRO S900, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.
www.fujitsu.com/fts/FUTRO

## Fujitsu green policy innovation

Fujitsu Green Policy Innovation is our worldwide project for reducing burdens on the environment.
Using our global know-how, we aim to contribute to the creation of a sustainable environment for future generations through IT.
Please find further information at http://www.fujitsu.com/global/about/environment/

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